

JOB TITLE: Engineer I
EMPLOYEE:
VRC: Kyle Pletz

DOT #: 922.687-054
CLAIM #



KING COUNTY ON SITE JOB ANALYSIS

JOB TITLE Engineer I

JOB CLASSIFICATION Engineer I

DOT TITLE Sample Gatherer

DOT NUMBER 922.687-054

DEPARTMENT Natural Resources and Parks

DIVISION Solid Waste

OF POSITIONS IN THE DEPARTMENT WITH THIS JOB TITLE 4

JOB STATUS

Full Time, Career Service.

ADDRESS OF WORKSITE

16645 228th Ave SE
Maple Valley, WA 98038

CONTACT'S NAME Shirley Jurgensen

CONTACT'S PHONE 206-296-4417

EMPLOYER JOB TITLE Supervising Engineer (Engineer IV)

DATE COMPLETED 5/16/02

VRC NAME Jeff Casem

DATE REVISED 5/13/08

WORK HOURS 6:00am to 2:30pm Monday through Friday.

OVERTIME

Rare, 8-12 hours per year.
Fair Labor Standards Act, Non-Exempt (hourly).

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JOB DESCRIPTION

Provides technical support to the field engineering unit and the environmental staff downtown. Prepares appropriate materials for the field crew, functions in the field unit as required and tracks the routine administrative tasks required to support the field. Handles routine communications and tasks associated with the lab contract, performs data entry assistance, and assists Engineers and Senior Engineers with environmental data analysis. This position also requires working in all weather conditions, on steep and uneven terrain, lifting, pulling and carrying heavy items.

ESSENTIAL ABILITIES FOR ALL KING COUNTY JOB CLASSIFICATIONS

1. Ability to demonstrate predictable, reliable, and timely attendance.
2. Ability to follow written and verbal directions and to complete assigned tasks on schedule.
3. Ability to read, write & communicate in English and understand basic math.
4. Ability to learn from directions, observations, and mistakes, and apply procedures using good judgement.
5. Ability to work independently or part of a team; ability to interact appropriately with others.
6. Ability to work with supervision, receiving instructions/feedback, coaching/counseling and/or action/discipline.

JOB SPECIFIC REQUIREMENTS

One year experience demonstrating the ability to perform the essential functions of the job. Must possess a valid Washington State Driver's license and successfully complete a pre-employment physical examination.

ESSENTIAL FUNCTIONS Listed in order of importance

1. Collects water and gas samples.
2. Conducts surveys.
3. Performs routine tasks in processing field and lab reports, such as tracking sample receipt acknowledgements and clarifying information transferred between the lab, the field and the downtown environmental staff.
4. Performs database entry and quality assurance reviews.
5. Prepares statistical reports that are included in the quarterly and annual groundwater reports.
6. Conducts routine site inspections as assigned such as semi-annual storm water inspections for National Pollutant Discharge Elimination System (NPDES) permit compliance and general environmental conditions at solid waste facilities.
7. Provides data analysis assistance to Engineers and Senior Engineers for evaluation of field and lab data for the quarterly and annual reports.

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TOOLS, MACHINES, EQUIPMENT, PRODUCTS, AND SERVICES USED

Cooler, sample bottles, gallon containers of water, computer, telephone, gas and water testing equipment, nitrogen tanks, regulators, controller boxes (for pumps), pumps, wells, four wheel drive pickup with a camper, four-wheel drive Sports Utility Vehicle (SUV), cellular phone, 2-way radio, fax machine, copy machine, backpack, machete, digging bar, tripod, 3 pound hammer, weed-eater, and a buck saw.

PHYSICAL DEMANDS AS JOB IS TYPICALLY PERFORMED

Continuously = occurs 66-100% of the time

Frequently = occurs 33-66% of the time

Occasionally = occurs 1-33% of the time

Rare = may occur less than 1% of the time

Never = does not ever occur (such demands are not listed)

This job is classified as

Light per DOT, but heavy in this particular position.

Standing

Continuously on flat carpet and flat linoleum as well as undeveloped, uneven, steep, rough and thick vegetation surfaces for up to 30 minutes at a time for up to 6 hours total in a work shift. Most commonly occurs while pulling a pump out of a well, collecting water and gas samples and manipulating gas probes.

Walking

Occasionally on flat carpet and flat linoleum as well as undeveloped, uneven, steep, rough and thick vegetation surfaces for distances of up to ¼ mile for up to 30 minutes at a time for up to 2 hours total in a work shift. Most commonly occurs while performing survey duties. On a rare occasion (once per year) the employee may need to perform a serpentine walk that includes walking up to 23 miles in 3 days for up to 8 hours per day.

Sitting

Continuously on and automobile seat, bucket or office chair for up to 1.5 hours at a time for up to 7 hours total in a work shift. Most commonly occurs while driving, performing computer work, and sitting on a bucket while collecting and analyzing samples.

Climbing stairs

Occasionally for up to 5 minutes at a time while climbing 40 steps for up to 10 minutes total in a work shift. Most commonly occurs while walking between the parking lot and work area, entering and exiting the work truck and when walking on trails.

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Climbing

Rare to heights of 3 feet for up to 5 seconds at a time and up to 5 minutes total in a work shift. Most commonly occurs while entering and exiting the camper section of the truck.

Balancing

Occasionally on flat carpet and flat linoleum as well as undeveloped, uneven, steep, rough and thick vegetation surfaces for up to 30 minutes at a time for up to 2 hours total in a work shift. Most commonly occurs while collecting water and gas samples.

Bending/Stooping

Occasionally on flat carpet and flat linoleum as well as undeveloped, uneven, steep, rough and thick vegetation surfaces for up to 40 minutes at a time for up to 2 hours total in a work shift. Most commonly occurs while collecting water and gas samples, performing field tests, and removing/placing equipment in camper.

Kneeling

Occasionally on undeveloped, uneven, steep, rough and thick vegetation surfaces for up to 5 minutes at a time for up to 30 minutes total in a work shift. Most commonly occurs while manipulating flush mount gas probes.

Crouching

Occasionally on undeveloped, uneven, steep, rough and thick vegetation surfaces for up to 10 seconds at a time for up to 30 minutes total in a work shift. Most commonly occurs while conducting surface water sampling duties.

Operating Controls with Feet

Frequently for up to 1.5 hours at a time for up to 4 hours total in a work shift while driving a 4 wheel drive pickup truck with a camper and an automatic transmission.

Reaching above shoulder height

Occasionally for up to 10 seconds at a time for up to 15 minutes total in a work shift while placing and removing objects on laboratory shelves and overhead compartments in the camper.

Reaching at waist to shoulder height

Continuously for up to 2.5 hours at a time for up to 7 hours total in a work shift while driving as well as performing computer duties.

Reaching at knee to waist height

Occasionally for up to 1.5 hours at a time for up to 1.5 hours total in a work shift while filling sample bottles.

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Reaching at floor to knee height

Occasionally for up to 5 seconds at a time for up to 35 minutes total in a work shift while manipulating flush mount gas probes and sample bottles as well as placing and removing objects from a cooler.

Lifting 1-10 pounds

Occasionally for up to 10 minutes at a time for up to 1.5 hours total in a work shift. Most commonly occurs with weights of 6 pounds while using the water level indicator as well as the multi-gas analyzer.

Carrying 1-10- pounds

Rare for distances of up to 5 feet for up to 5 seconds at a time and up to 5 minutes total in a work shift. Most commonly occurs with weights of 3-5 pounds while manipulating a regulator as well as using an oxygen meter or a turbidity meter.

Lifting 11-20 pounds

Frequently for up to 5 minutes at a time for up to 3.5 hours total in a work shift. Most commonly occurs with weights of 17 pounds while using the water testing equipment.

Carrying 11-20 pounds

Continuously for distances of up to ¼ mile for up to 30 minutes at a time for up to 6 hours total in a work shift. Most commonly occurs with weights of 15-20 pounds while transporting a water tester or a backpack containing 2 gallons of water.

Lifting 21-50 pounds

Occasionally for up to 10 seconds at a time for up to 10 minutes total in a work shift. Most commonly occurs with weights of 35-50 pounds while moving a cooler with samples in it, a box containing 3 gallons of water, and the metal step on the camper.

Carrying 21-50 pounds

Occasionally for distances of up to ¼ mile for up to 30 minutes at a time and up to 40 minutes total in a work shift. Most commonly occurs with weights of 25-35 pounds while transporting several gallons of water or a control box.

Lifting 51-100 pounds

Rare for up to 5 seconds at a time for up to 2 minutes total in a work shift. Most commonly occurs with weights of 60-70 pounds while moving a cooler filled with ice and samples.

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Carrying 51-100 pounds

Rare for distances of up to 5 feet for up to 5 seconds at a time and up to 2 minutes total in a work shift. Most commonly occurs with weights of 60-70 pounds while transporting a cooler filled with ice and samples.

Pushing and Pulling

Occasionally for distances of up to 40 feet for up to 2 minutes at a time with a force of up to 30 pounds and up to 10 minutes total in a work shift. Most commonly occurs while pushing coolers containing samples and ice in and out of the camper as well as pushing and pulling them on a hand truck to and from the laboratories.

Handling

Continuously for up to 2.5 hours at a time for up to 7 hours total in a work shift while manipulating sample bottles, driving, using gas testing instruments, and using a machete when walking through thick brush.

Operating Controls with Hands

Continuously for up to 2.5 hours at a time for up to 7 hours total in a work shift while driving, adjusting regulators and using testing equipment.

Fingering

Continuously for up to 45 minutes at a time for up to 7 hours total in a work shift while typing, using test equipment, clicking the computer mouse, writing as well as repairing probes and valves.

Talking

Occasionally for up to 30 minutes at a time for up to 2 hours total in a work shift while using a telephone or 2-way radio as well as conversing with co-workers and citizens.

Hearing

Continuously for up to 2.5 hours at a time for up to 7 hours total in a work shift while conversing with co-workers and citizens, listening for mechanical failure of pumps, driving, as well as listening for wildlife and dangers when walking through densely wooded areas.

Tasting/Smelling

Occasionally for up to 10 minutes at a time for up to 30 minutes total in a work shift while smelling water samples, smelling for gas leaks, and identifying potential hazards.

Near acuity—clarity of vision at 20 inches or less

Continuously for up to 2.5 hours at a time for up to 7 hours total in a work shift while looking at samples, gauges, documents and a computer screen.

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Far acuity—clarity of vision at 20 feet or more

Frequently for up to 1.5 hours at a time for up to 5.5 hours total in a work shift while driving and identifying locations of wells.

Depth perception—three dimensional vision

Continuously for up to 2.5 hours at a time for up to 7 hours total in a work shift while walking through densely wooded areas, driving and filling sampling bottles.

Color vision—ability to identify and distinguish colors

Occasionally for up to 10 minutes at a time for up to 10 minutes total in a work shift while performing color tests and identifying the color of sample bottle labels for preservatives such as an acid or a base as a safety precaution.

Field of vision—observing an area that can be seen up and down or right or left while eyes are fixed on a given point

Continuously for up to 2.5 hours at a time for up to 7 hours total in a work shift while identifying safety hazards such as moving vehicles or wildlife.

Night vision--seeing after sundown with minimal or no supplemental light sources

Occasionally for up to 3 hours at a time for up to 3 hours total in a work shift while working before sunrise in the winter months.

TEMPERAMENTS

Directing, controlling, or planning activities of others: Occasionally
Performing repetitive or short-cycle work: Continuously
Influencing people in their opinions, attitudes, and judgements: Occasionally
Performing a variety of duties: Continuously
Working alone or apart in physical isolation from others: Continuously
Working effectively under stress: Occasionally
Attaining precise set limits, tolerances, and standards: Continuously
Working under specific instructions: Continuously
Working with others: Occasionally
Making judgements and decisions: Occasionally

ENVIRONMENTAL FACTORS

Work is performed in multiple indoor and outdoor settings including laboratory, office, solid waste facility and undeveloped areas. Surfaces include flat carpet, flat linoleum, flat concrete, undeveloped land as well as uneven, steep and rough terrain and thick vegetation. Employee drives on unimproved roads that require the use of a four-wheel drive vehicle. The noise level is quiet to moderately loud.

Workers are exposed to

Outside weather: Continuously

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Extreme cold: Occasionally
Wet: Continuously
Humidity/dampness: Continuously
Fumes: Occasionally
Odors: Frequently- Continuously
Dusts: Frequently
Gases: Occasionally
Moving mechanical parts: Rare
Vibration: Frequently
Working in high, exposed places; Rare
Toxic or caustic chemicals: Occasionally

POTENTIAL MODIFICATIONS TO JOB

Walking stick to assist balance when walking on uneven terrain.

Signature & title of evaluator

Date

Signature & title of contact

Date

Signature & title of employee

Date

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HEALTH CARE PROVIDER SECTION

Check all that apply

☐ The employee is released to perform the described duties without restrictions on performance or work hours.

☐ The employee is released to perform the described duties on a reduced schedule. The recommended schedule is:

☐ Temporary until _____ ☐ Permanent as of _____

☐ The employee is released to perform the described job with the following modifications:

☐ Temporary until _____ ☐ Permanent as of _____

☐ The employee is not released to perform the described duties due to the following job functions:

☐ Temporary until _____ ☐ Permanent effective _____

☐ The employee is unable to work in any capacity.
A release to work is: ☐ anticipated by _____ ☐ Not expected

The limitations are due to the following objective medical findings:

Printed or typed name and phone number of Health Care Provider

Signature of Health Care Provider

Date